

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:54:37 ON 05 AUG 2008
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 provided by InfoChem.

STRUCTURE FILE UPDATES: 4 AUG 2008 HIGHEST RN 1038507-75-3
 DICTIONARY FILE UPDATES: 4 AUG 2008 HIGHEST RN 1038507-75-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

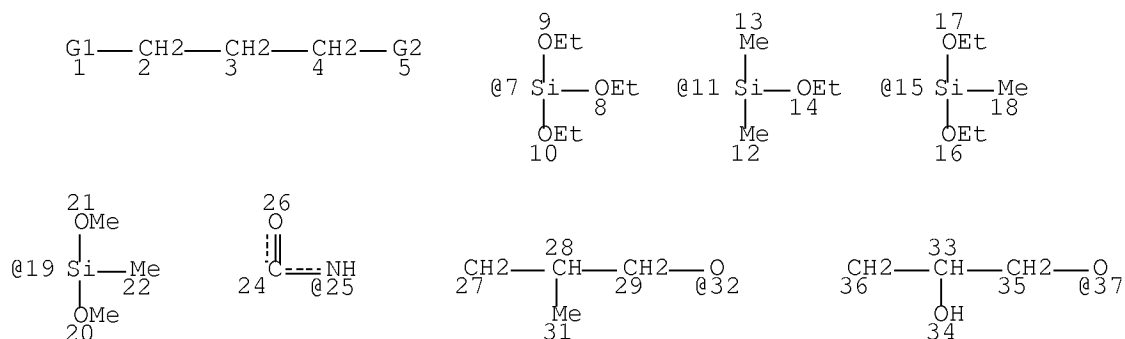
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d sta que 130

L22 STR



VAR G1=25/32/37

VAR G2=7/11/15/19

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

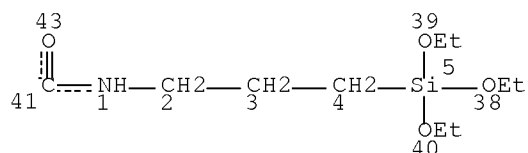
NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

L23 SCR 2043

L25 930 SEA FILE=REGISTRY SSS FUL L22 AND L23

L26 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

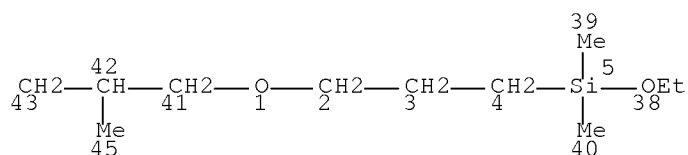
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L27 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

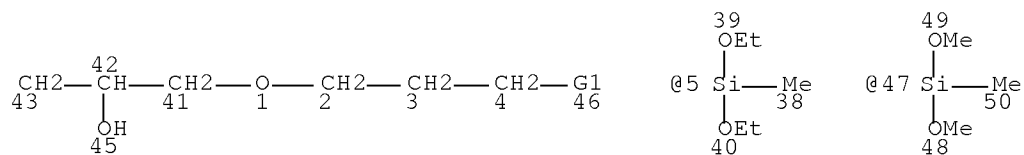
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L28 STR



VAR G1=5/47

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

L30 864 SEA FILE=REGISTRY SUB=L25 SSS FUL (L26 OR L27 OR L28)

100.0% PROCESSED 914 ITERATIONS

864 ANSWERS

SEARCH TIME: 00.00.07

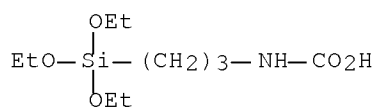
=> d ide can tot 166

L66 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 1013932-77-8 REGISTRY
 ED Entered STN: 13 Apr 2008
 CN 2-Oxepanone, homopolymer, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1), hexakis[N-[3-(triethoxysilyl)propyl]carbamate] (CA INDEX NAME)
 MF C10 H23 N O5 Si . 1/6 C10 H22 O7 . (C6 H10 O2)x
 PCT Polyester, Polyester formed
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

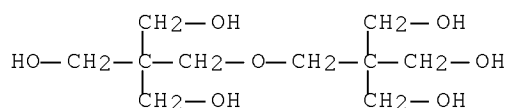
CM 1

CRN 140236-86-8
 CMF C10 H23 N O5 Si



CM 2

CRN 126-58-9
 CMF C10 H22 O7

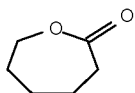


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:380362

L66 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
RN 945755-96-4 REGISTRY
ED Entered STN: 29 Aug 2007
CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1), polymer with triethoxymethylsilane (CA INDEX NAME)
MF (C7 H18 O3 Si . (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C52 H110 N4 O21 Si4)
CI PMS
PCT Polyester, Polyether
SR CA
LC STN Files: CA, CAPLUS

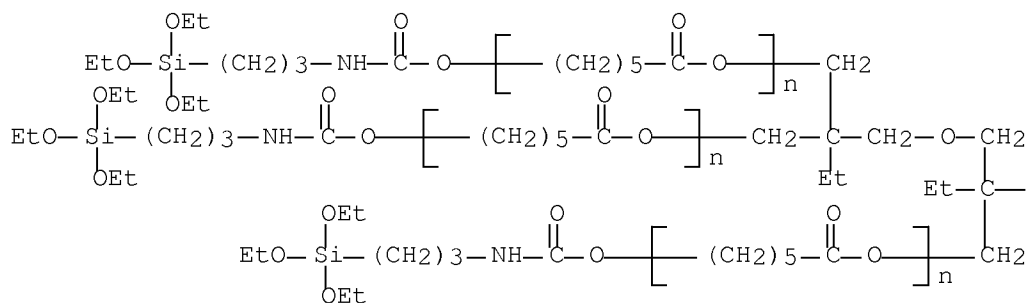
CM 1

CRN 816457-20-2

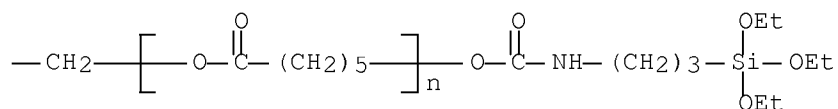
CMF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C52 H110 N4 O21 Si4

CCI PMS

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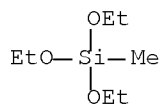
PAGE 1-B



CM 2

CRN 2031-67-6

CMF C7 H18 O3 Si



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:258557

L66 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN

RN 870100-44-0 REGISTRY

ED Entered STN: 16 Dec 2005

CN 2-Oxepanone, homopolymer, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1), tetrakis[[3-(triethoxysilyl)propyl]carbamate] (9CI)
(CA INDEX NAME)

MF C12 H26 O5 . 4 C10 H23 N O5 Si . 4 (C6 H10 O2)x

PCT Polyester, Polyester formed

SR CA

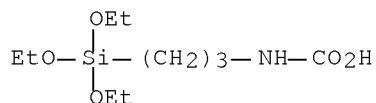
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

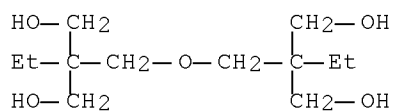
CRN 140236-86-8

CMF C10 H23 N O5 Si



CM 2

CRN 23235-61-2
 CMF C12 H26 O5

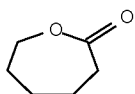


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

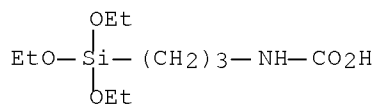
REFERENCE 1: 144:7444

L66 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 853904-58-2 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN 2-Oxepanone, homopolymer, ester with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), tetrakis[[3-(triethoxysilyl)propyl]carbamate] (9CI)
 (CA INDEX NAME)
 MF C10 H23 N O5 Si . (C6 H10 O2)x . 1/4 C5 H12 O4
 PCT Polyester, Polyester formed
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

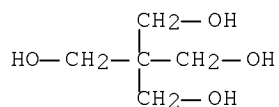
CM 1

CRN 140236-86-8
 CMF C10 H23 N O5 Si



CM 2

CRN 115-77-5
 CMF C5 H12 O4

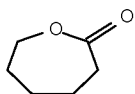


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

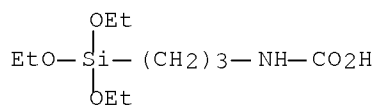
REFERENCE 1: 143:60335

L66 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 853904-54-8 REGISTRY
 ED Entered STN: 06 Jul 2005
 CN 2-Oxepanone, homopolymer, ester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris[[3-(triethoxysilyl)propyl]carbamate] (9CI) (CA INDEX NAME)
 MF C10 H23 N O5 Si . 1/3 C6 H14 O3 . (C6 H10 O2)x
 PCT Polyester, Polyester formed
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

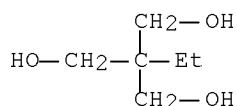
CM 1

CRN 140236-86-8
 CMF C10 H23 N O5 Si



CM 2

CRN 77-99-6
 CMF C6 H14 O3

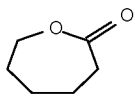


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)_x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

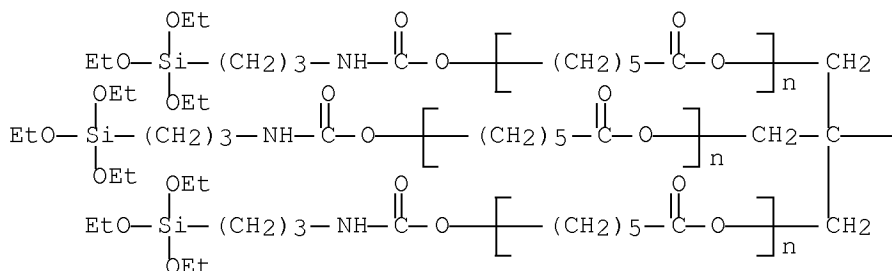
REFERENCE 1: 143:60335

L66 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 853879-44-4 REGISTRY
 ED Entered STN: 05 Jul 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with
 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1) (9CI) (CA INDEX NAME)
 MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C45 H96 N4 O20
 Si4
 CI PMS

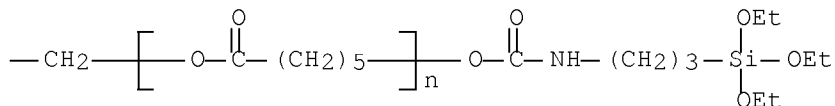
PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

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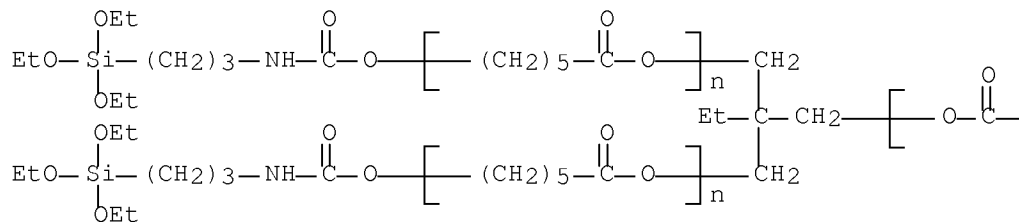
1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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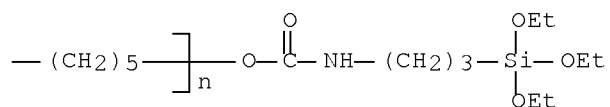
L66 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 853879-43-3 REGISTRY
 ED Entered STN: 05 Jul 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)
 MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C36 H77 N3 O15 Si3
 CI PMS
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

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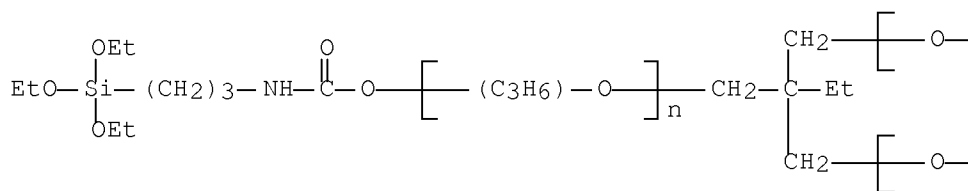


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 143:60335

L66 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 851852-18-1 REGISTRY
 ED Entered STN: 08 Jun 2005
 CN Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ether with
 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)
 MF (C3 H6 O)_n (C3 H6 O)_n (C3 H6 O)_n C36 H77 N3 O15 Si3
 CI IDS, PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS

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REFERENCE 1: 142:356293

L66 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN

RN 846014-06-0 REGISTRY

ED Entered STN: 21 Mar 2005

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI) (CA INDEX NAME)

MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C64 H142 O31 Si6

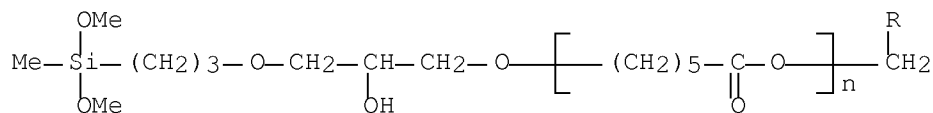
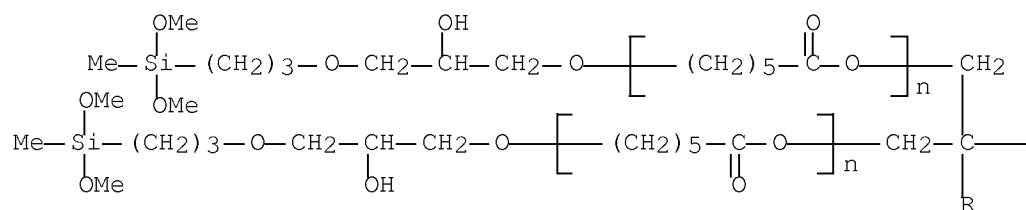
CI PMS

PCT Polyester

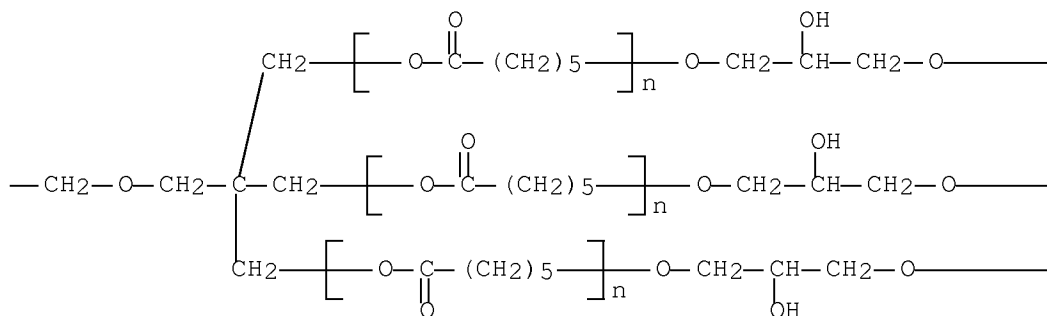
SR CA

LC STN Files: CA, CAPLUS

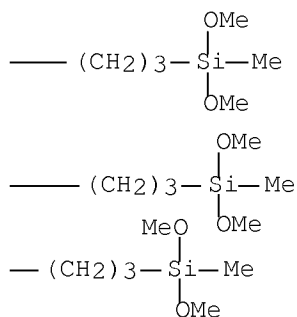
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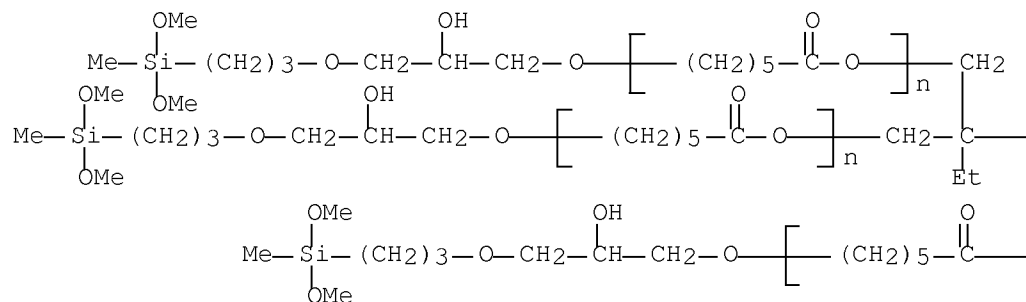


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

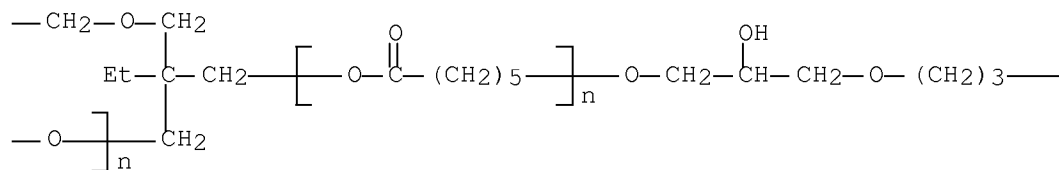
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L66 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 846014-04-8 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)
 MF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C48 H106 O21 Si4
 CI PMS
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

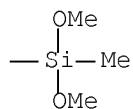
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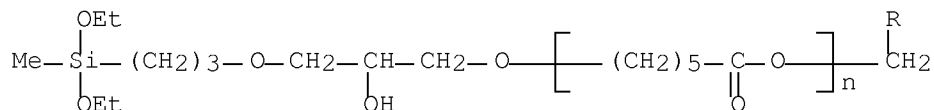
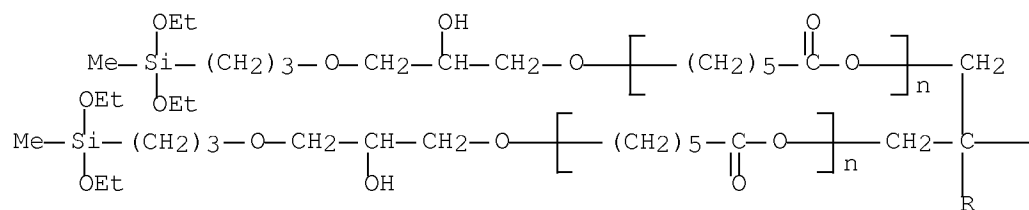


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

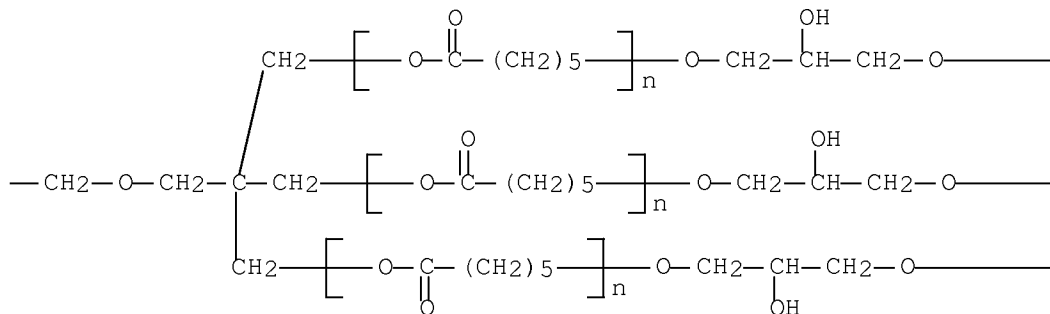
REFERENCE 1: 142:262689

L66 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 846014-02-6 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(diethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI) (CA INDEX NAME)
 MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C76 H166 O31 Si6
 CI PMS
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

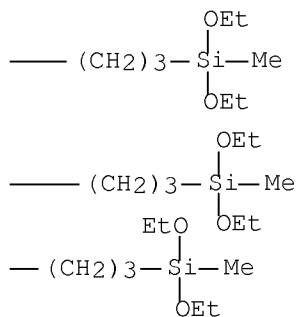
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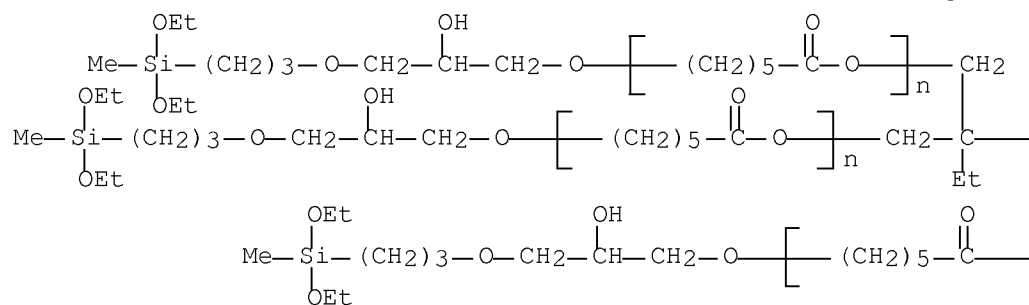


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

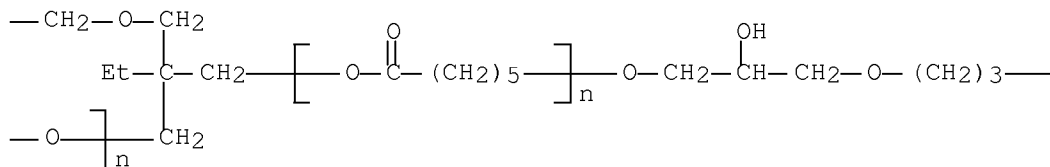
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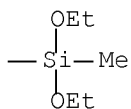
L66 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 846014-00-4 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(diethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with
 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA
 INDEX NAME)
 MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C56 H122 O21
 Si4
 CI PMS
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

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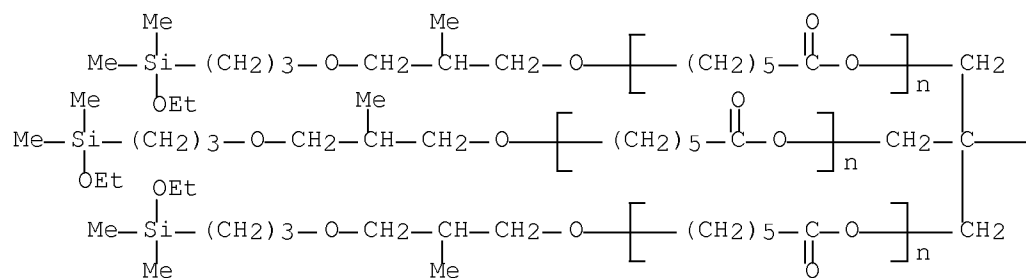


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

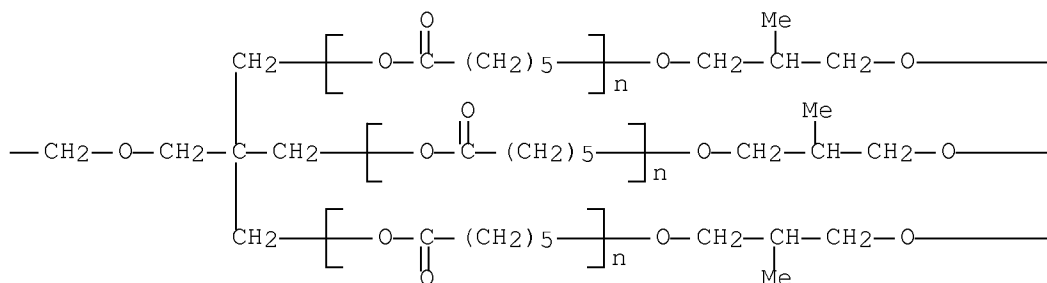
REFERENCE 1: 142:262689

L66 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
RN 846013-98-7 REGISTRY
ED Entered STN: 21 Mar 2005
CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI) (CA INDEX NAME)
MF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C76 H166 O19 Si6
CI FMS
PCT Polyester
SR CA
LC STN Files: CA, CAPLUS

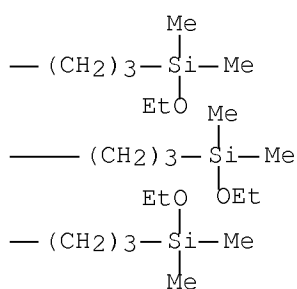
PAGE 1-A



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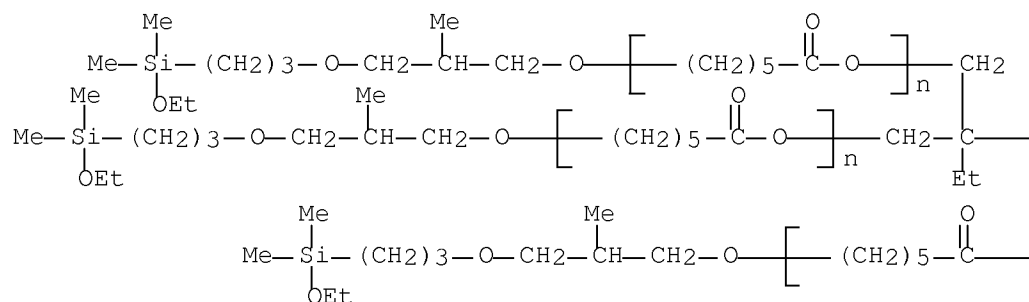


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

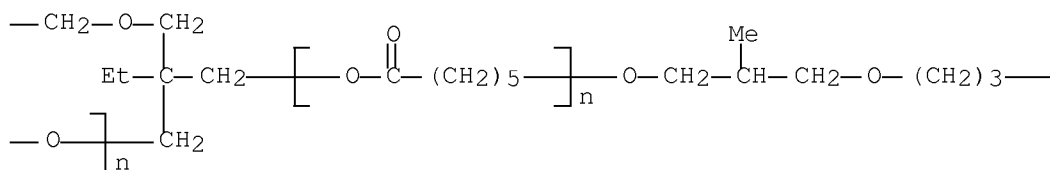
REFERENCE 1: 142:262689

L66 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 846013-96-5 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)
 MF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C56 H122 O13 Si4
 CI PMS
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS

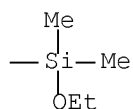
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PAGE 1-B



PAGE 1-C



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:262689

L66 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN

RN 816457-23-5 REGISTRY

ED Entered STN: 19 Jan 2005

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (CA INDEX NAME)

MF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6

H10 O2)n C70 H148 N6 O31 S16

CI PMS

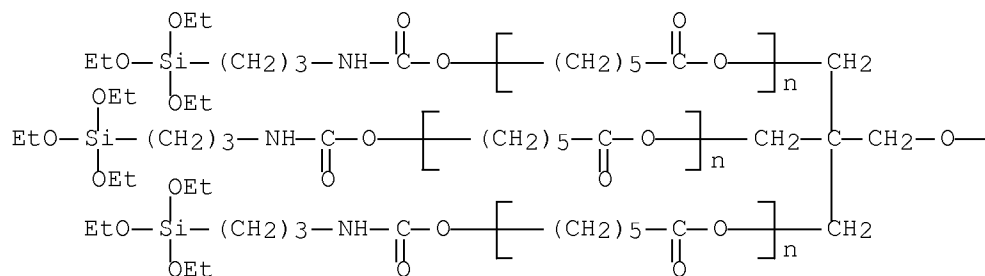
PCT Polyester

SR CA

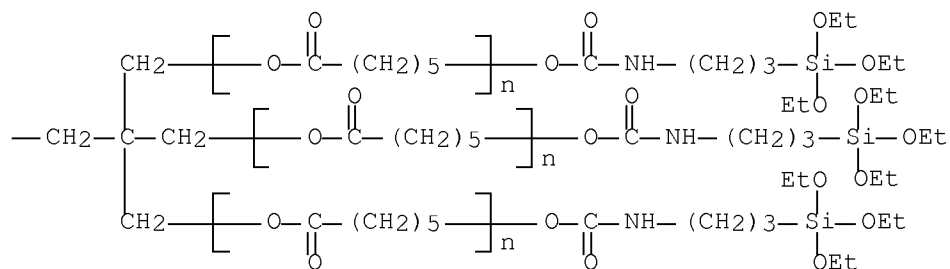
LC STN Files: CA, CAPLUS, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:380362

REFERENCE 2: 142:491335

REFERENCE 3: 142:262689

REFERENCE 4: 142:105484

L66 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2008 ACS on STN

RN 816457-20-2 REGISTRY

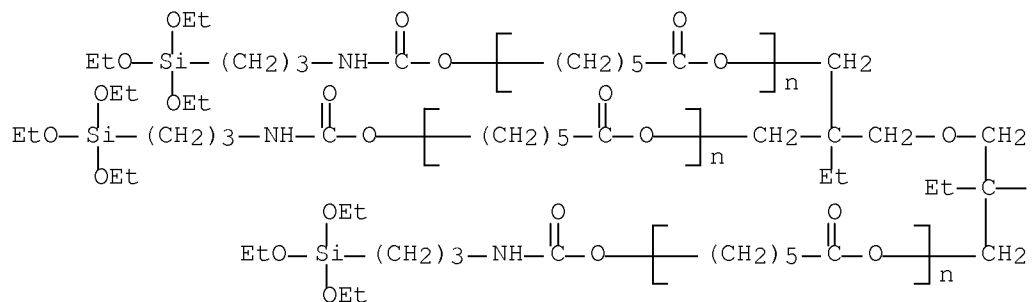
ED Entered STN: 19 Jan 2005

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA

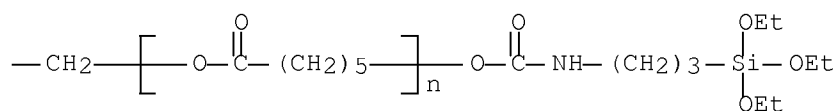
INDEX NAME)
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 Si4
 CI FMS, COM
 PCT Polyester
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:7444
 REFERENCE 2: 142:262689
 REFERENCE 3: 142:105484

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 08:54:54 ON 05 AUG 2008
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FILE LAST UPDATED: 4 Aug 2008 (20080804/ED)

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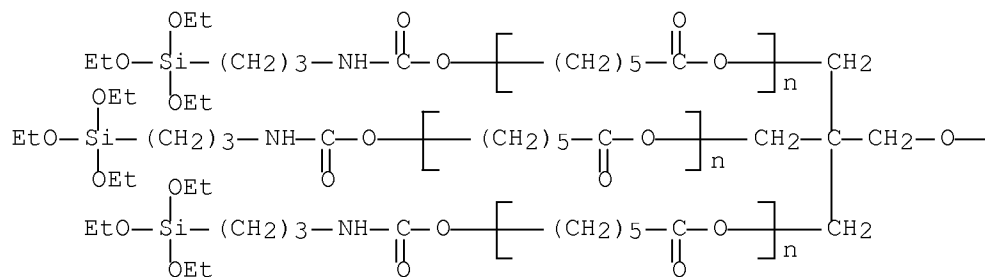
This file contains CAS Registry Numbers for easy and accurate substance identification.

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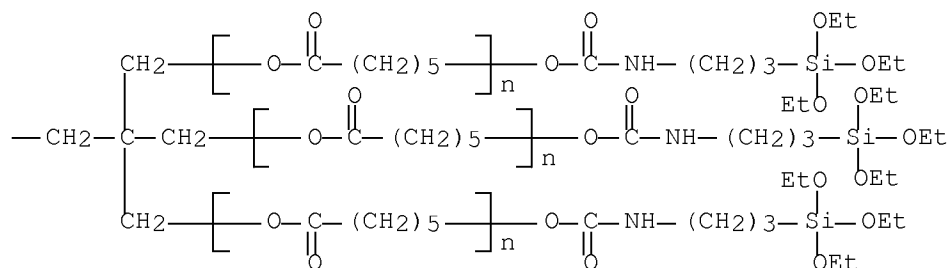
L71 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:487246 HCAPLUS Full-text
DN 148:380362
TI Synchrotron X-ray reflectivity studies of nanoporous organosilicate thin films with low dielectric constants
AU Oh, Weontae; Hwang, Yongtaek; Shin, Tae Joo; Lee, Eyeongdu; Kim, Jong Seong; Yoon, Jinhwan; Brennan, Sean; Mehta, Apurva; Ree, Moonhor
CS Department of NanoTechnology, Dong-eui University, Pusan, 614-714, S. Korea
SO Journal of Applied Crystallography (2007), 40(S1), s626-s630
CODEN: JACGAR; ISSN: 0021-8898
PB Blackwell Publishing Ltd.
DT Journal
LA English
AB Quant., non-destructive X-ray reflectivity anal. using synchrotron radiation sources was successfully performed on nanoporous dielec. thin films prepared by thermal processing of blend films of a thermally curable polymethylsilsesquioxane dielec. precursor and a thermally labile triethoxysilyl-terminated six-arm poly(.vepsiln.-caprolactone) porogen in various compns. In addition, thermogravimetric anal. and transmission electron microscopy anal. were carried out. These measurements provided important structural information about the nanoporous films. The thermal process used in this study was found to cause the porogen mols. to undergo efficiently sacrificial thermal degradation, generating closed, spherical nanopores in the dielec. film. The resultant nanoporous films exhibited a homogeneous, well defined structure with a thin skin layer and low surface roughness. In particular, no skin layer was formed in the porous film imprinted using a porogen loading of 30 wt%. The film porosities ranged from 0 to 33.8% over the porogen loading range of 0-30 wt%.
IT 816457-23-5 1013932-77-8
RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PROC (Process); USES (Uses)
(synchrotron X-ray reflectivity studies of nanoporous organosilicate thin films with low dielec. consts.)
RN 816457-23-5 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



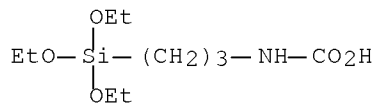
RN 1013932-77-8 HCAPLUS

CN 2-Oxepanone, homopolymer, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1), hexakis[N-[3-(triethoxysilyl)propyl]carbamate] (CA INDEX NAME)

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CRN 140236-86-8

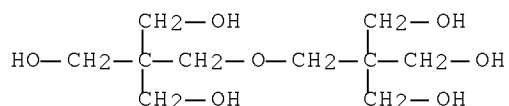
CMF C10 H23 N O5 Si



CM 2

CRN 126-58-9

CMF C10 H22 O7

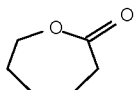


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2

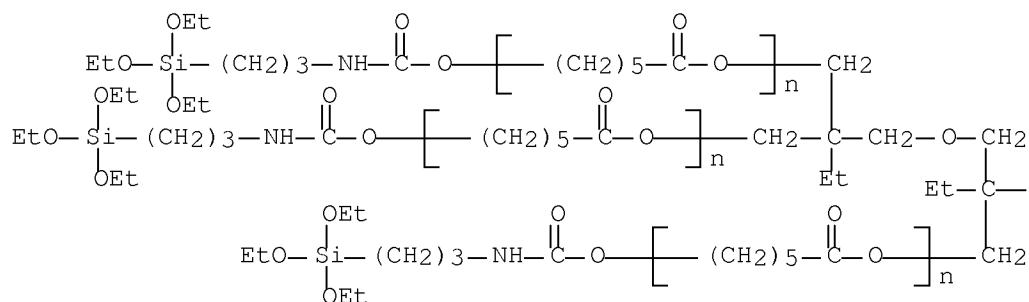


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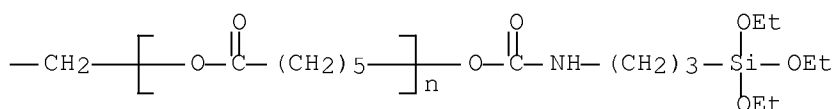
Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bolze, J	2001	17	6683	Langmuir	HCAPLUS
Bolze, J	2002	10	2	Macromol Res	HCAPLUS
Clark, D	1978			Polymer Surfaces	
Fleer, G	1993			Polymers at Interfac	
Gibaud, A	1993	A49	642	Acta Cryst	HCAPLUS
Harmer, M	1996	118	7708	J Am Chem Soc	HCAPLUS
Huang, E	2002	81	2232	Appl Phys Lett	HCAPLUS
Hwang, Y	2006	510	159	Thin Solid Films	HCAPLUS
Kiessig, H	1931	10	769	Ann Phys	HCAPLUS
Lee, B	2005	17	696	Adv Mater	HCAPLUS
Lee, B	2004	37	4174	Macromolecules	HCAPLUS
Lee, B	2005	38	3395	Macromolecules	HCAPLUS
Lee, B	2005	38	8991	Macromolecules	HCAPLUS
Lee, B	2005	4	147	Nat Mater	HCAPLUS
Lee, H	2002	14	1845	Chem Mater	HCAPLUS
Lev, O	1995	67	22	Anal Chem	
Morais, T	1999	11	107	Adv Mater	
Nevot, L	1980	15	761	Rev Phys Appl	HCAPLUS
Oh, W	2003	44	2519	Polymer	HCAPLUS
Parratt, L	1954	95	359	Phys Rev	
Ree, M	2006	16	685	J Mater Chem	HCAPLUS
Ree, M	2005	14	2	Phys High Tech (Kore	
Rottman, C	1999	121	8533	J Am Chem Soc	HCAPLUS
Shin, Y	2001	9	100	Korea Polym J	HCAPLUS
Smaih, M	1996	116	211	J Membr Sci	HCAPLUS

AN 2006:1027233 HCAPLUS Full-text
 DN 147:258557
 TI X-ray scattering study of thermal nanopore templating in hybrid films of organosilicate precursor and reactive four-armed porogen
 AU Yoon, Jinhwan; Heo, Kyuyoung; Oh, Weontae; Jin, Kyeong Sik; Jin, Sangwoo; Kim, Jehan; Kim, Kwang-Woo; Chang, Taihyun; Ree, Moonhor
 CS Department of Chemistry, National Research Lab for Polymer Synthesis and Physics, Pohang Accelerator Laboratory, Center for Integrated Molecular Systems, Polymer Research Institute, and BK School of Molecular Science, Pohang University of Science and Technology (Postech), Pohang, 790-784, S. Korea
 SO Nanotechnology (2006), 17(14), 3490-3498
 CODEN: NNOTER; ISSN: 0957-4484
 PB Institute of Physics Publishing
 DT Journal
 LA English
 AB The miscibility and the mechanism for thermal nanopore templating in films prepared from spin-coating and subsequent drying of homogeneous solns. of curable polymethylsilsesquioxane dielec. precursor and thermally labile, reactive triethoxysilyl-terminated four-armed poly(ϵ -caprolactone) porogen were investigated in detail by in situ two-dimensional grazing incidence small-angle x-ray scattering anal. The dielec. precursor and porogen components in the film were fully miscible. On heating, limited aggregations of the porogen, however, took place in only a small temperature range of 100-140°C as a result of phase separation induced by the competition of the curing and hybridization reactions of the dielec. precursor and porogen; higher porogen loading resulted in relatively large porogen aggregates and a greater size distribution. The developed porogen aggregates underwent thermal firing above 300 °C without further growth and movement, and ultimately left their individual footprints in the film as spherical nanopores.
 IT 945755-96-4
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (X-ray scattering study of thermal nanopore templating in hybrid films of organosilicate precursor and reactive four-armed porogen)
 RN 945755-96-4 HCAPLUS
 CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1), polymer with triethoxymethylsilane (CA INDEX NAME)
 CM 1
 CRN 816457-20-2
 CMF (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n (C6 H10 O2)n C52 H110 N4 O21
 Si4
 CCI PMS

PAGE 1-A



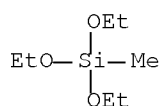
PAGE 1-B



CM 2

CRN 2031-67-6

CMF C7 H18 O3 Si



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Bolze, J	2001	17	6683	Langmuir	HCAPLUS
Bolze, J	2002	10	2	Macromol Res	HCAPLUS
Czornyj, G	1992	42	682	Proc Electron Comput	
Hedrick, J	1998	10	1049	Adv Mater	HCAPLUS
Huang, E	2002	81	2232	Appl Phys Lett	HCAPLUS
Kim, H	2003	15	609	Chem Mater	HCAPLUS
Kinning, D	1984	17	1712	Macromolecules	HCAPLUS
Lee, B	2005	17	696	Adv Mater	HCAPLUS
Lee, B	2004	37	4174	Macromolecules	HCAPLUS
Lee, B	2005	38	3395	Macromolecules	HCAPLUS
Lee, B	2005	38	4311	Macromolecules	HCAPLUS

Lee, B	2005	38	8991	Macromolecules	HCAPLUS
Lee, B	2005	4	147	Nat Mater	HCAPLUS
Lee, H	2002	14	1845	Chem Mater	HCAPLUS
Miller, R	1999	286	421	Science	HCAPLUS
Nguyen, C	1999	11	3080	Chem Mater	HCAPLUS
Nguyen, C	2000	33	4281	Macromolecules	HCAPLUS
Oh, W	2004	20	6932	Langmuir	HCAPLUS
Oh, W	2002	203	791	Macromol Chem Phys	
Oh, W	2001	371	397	Mol Cryst Liq Cryst	HCAPLUS
Oh, W	2003	44	2519	Polymer	HCAPLUS
Ree, M	2006	16	685	J Mater Chem	HCAPLUS
Ree, M	1995	35	215	Polym Bull	HCAPLUS
Semiconductor Industry	2004			International Techno	
Shin, Y	2001	9	100	Korea Polym J	HCAPLUS
Young, R	1991			Introduction to Poly	

L71 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1059075 HCAPLUS Full-text

DN 144:7444

TI Scattering Studies of Nanoporous Organosilicate Thin Films Imprinted with Reactive Star Porogens

AU Lee, B.; Oh, W.; Yoon, J.; Hwang, Y.; Kim, J.; Landes, B. G.; Quintana, J. P.; Ree, M.

CS National Research Lab for Polymer Synthesis & Physics, Pohang Accelerator Laboratory, Pohang, 790-784, S. Korea

SO Macromolecules (2005), 38(22), 8991-8995
CODEN: MAMOBX; ISSN: 0024-9297

PB American Chemical Society

DT Journal

LA English

AB In order to minimize aggregation of the star-shaped poly(ϵ -caprolactone) porogen with four arms in a polyimide (PI)/polymethylsilsesquioxane (PMSSQ) dielec. matrix, it was modified with 3-(trimethoxysilyl)propylamine end-capping. To test the efficacy of the modification, the nanostructures and properties of porous dielecs. prepared using different amts. of modified porogen were quant. characterized.

IT 816457-20-2P 870100-44-0P

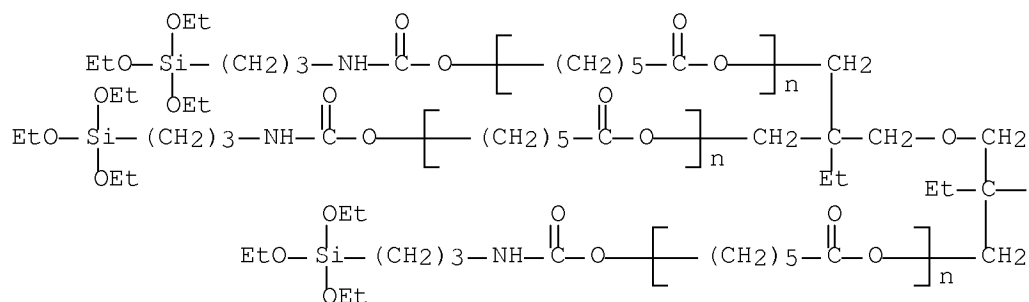
RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(reactive porogen; effect of reactive modification of star polycaprolactone porogen on nanostructure and properties of imprinted polyimide-silsesquioxane dielec. thin films)

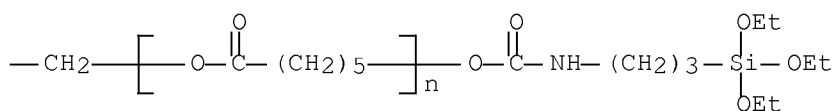
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CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

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PAGE 1-B



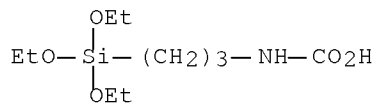
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CN 2-Oxepanone, homopolymer, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1), tetrakis[[3-(triethoxysilyl)propyl]carbamate] (9CI)
(CA INDEX NAME)

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CRN 140236-86-8

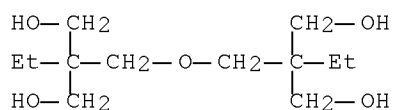
CMF C10 H23 N O5 Si



CM 2

CRN 23235-61-2

CMF C12 H26 O5

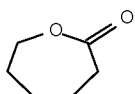


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

CRN 502-44-3
 CMF C6 H10 O2



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Anon	2001			International Techno	
Bolze, J	2001	17	6683	Langmuir	HCAPLUS
Bolze, J	2002	10	2	Macromol Res	HCAPLUS
Hedrick, J	1998	10	1049	Adv Mater	HCAPLUS
Huang, E	2002	81	2232	Appl Phys Lett	HCAPLUS
Kim, H	2003	15	609	Chem Mater	HCAPLUS
Kim, J	2005	46	7394	Polymer	HCAPLUS
Kinning, D	1984	17	1712	Macromolecules	HCAPLUS
Lee, B	2005	39	3395	Macromolecules	
Lee, B	2005	39	4311	Macromolecules	
Lee, B	2005	4	147	Nat Mater	HCAPLUS
Lee, H	2002	14	1845	Chem Mater	HCAPLUS
Londono, J	2000	33	704	J Appl Crystallogr	HCAPLUS
Maex, K	2003	93	8793	J Appl Phys	HCAPLUS
Maier, G	2001	26	3	Prog Polym Sci	HCAPLUS
Miller, R	1999	286	421	Science	HCAPLUS
Morgen, M	2000	30	645	Annu Rev Mater Sci	HCAPLUS
Nguyen, C	1999	11	3080	Chem Mater	HCAPLUS
Nguyen, C	2000	33	4281	Macromolecules	HCAPLUS
Oh, W	2004	20	6932	Langmuir	HCAPLUS
Oh, W	2002	203	791	Macromol Chem Phys	
Oh, W	2003	44	2519	Polymer	HCAPLUS
Pedersen, J	1994	27	595	J Appl Crystallogr	
Shin, Y	2001	9	100	Korea Polym J	HCAPLUS
Yang, S	2001	13	2762	Chem Mater	HCAPLUS

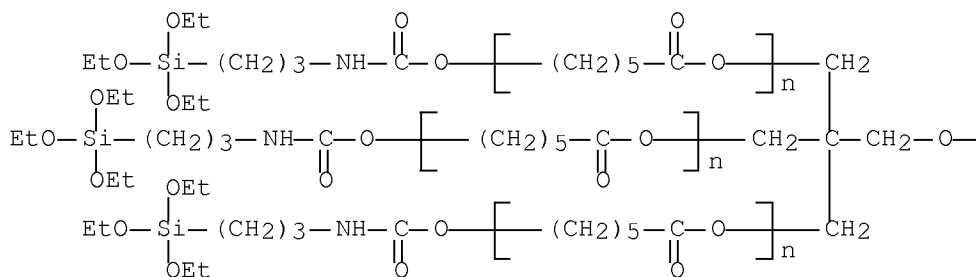
L71 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

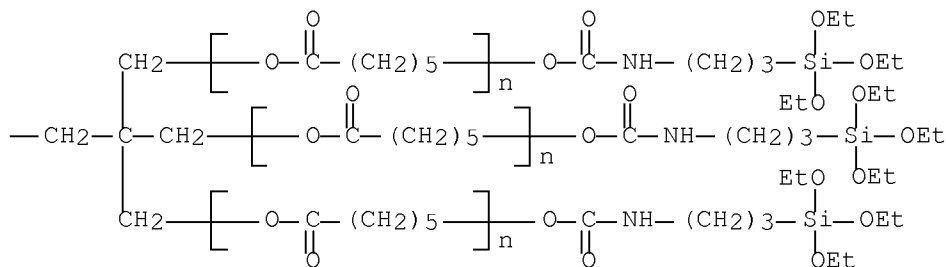
AN 2005:284667 HCAPLUS Full-text

DN 142:491335

- TI Imprinting well-controlled nanopores in organosilicate dielectric films: triethoxysilyl-modified six-armed poly(ϵ -caprolactone) and its chemical hybridization with an organosilicate precursor
- AU Lee, Byeongdu; Oh, Weontae; Hwang, Yongtaek; Park, Young-Hee; Yoon, Jinhwan; Jin, Kyeong Sik; Heo, Kyuyoung; Kim, Jehan; Kim, Kwang-Woo; Ree, Moonhor
- CS Department of Chemistry, Pohang Accelerator Laboratory Center for Integrated Molecular Systems and Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang, 790-784, S. Korea
- SO Advanced Materials (Weinheim, Germany) (2005), 17(6), 696-701
CODEN: ADVMEW; ISSN: 0935-9648
- PB Wiley-VCH Verlag GmbH & Co. KGaA
- DT Journal
- LA English
- AB A triethoxysilyl-terminated, six-armed poly(ϵ -caprolactone) porogen is synthesized and the terminal groups are found to significantly reduce the aggregation of the porogen mols. in an polymethylsilsesquioxane precursor via their hybridization reaction with the precursor. The porogen mols. successfully imprint nanopores in the organosilicate dielec. thin film through their sacrificial thermal decomposition Pore size and dielec. constant of the imprinted films are determined
- IT 816457-23-5
- RL: NUU (Other use, unclassified); USES (Uses)
(porogen; imprinting well-controlled nanopores in organosilicate dielec. films using triethoxysilyl-modified six-armed poly(ϵ -caprolactone) and its chemical hybridization with an organosilicate precursor)
- RN 816457-23-5 HCAPLUS
- CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-(oxybis(methylene))bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (CA INDEX NAME)

PAGE 1-A





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Anon	2001			International Techno	
Bolze, J	2001	17	6683	Langmuir	HCAPLUS
Bolze, J	2002	10	2	Macromol Res	HCAPLUS
Debye, P	1957	28	679	J Appl Phys	HCAPLUS
Hedrick, J	1998	10	1049	Adv Mater	HCAPLUS
Holy, V	1999			High-Resolution X-Ra	
Huang, E	2002	81	2232	Appl Phys Lett	HCAPLUS
Lee, B	2003			Ph D Thesis, Pohang	
Lee, H	2002	14	1845	Chem Mater	HCAPLUS
Maier, G	2001	26	3	Prog Polym Sci	HCAPLUS
Morgen, M	2000	30	645	Annu Rev Mater Sci	HCAPLUS
Nguyen, C	1999	11	3080	Chem Mater	HCAPLUS
Oh, W	2004	20	6932	Langmuir	HCAPLUS
Oh, W	2002	203	791	Macromol Chem Phys	
Oh, W	2002	203	791	Macromol Chem Phys	
Omote, K	2003	82	544	Appl Phys Lett	HCAPLUS
Parratt, L	1954	95	359	Phys Rev	
Pedersen, J	1994	27	595	J Appl Crystallogr	
Rauscher, M	1995	52	16855	Phys Rev B	HCAPLUS
Shin, Y	2001	9	100	Korea Polym J	HCAPLUS
Yang, S	2001	13	2762	Chem Mater	HCAPLUS

L71 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:182733 HCAPLUS Full-text

DN 142:262689

TI Low-dielectric nanoporous organosilicate polymer composite prepared from precursor of organic/inorganic hybrid polymer

IN Ree, Moonhor; Oh, Weontae; Hwang, Yong-Taek; Lee, Byeongdu

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005019303	A1	20050303	WO 2004-KR2104	20040820 <--
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NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
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 SN, TD, TG

DE 112004000058 T5 20050901 DE 2004-112004000058 20040820 <--
 JP 2006515644 T 20060601 JP 2005-518200 20040820 <--
 JP 4065291 B2 20080319
 US 20060014845 A1 20060119 US 2005-530815 20050408 <--
 PRAI KR 2003-57992 A 20030821 <--
 WO 2004-KR2104 W 20040820 <--

AB The organosilicate polymer composite is prepared by heating an organic/inorg. hybrid polymer in which an organosilicate polymer is chemical bonded to a radial pore-forming polymer ended with a hydrolyzable alkoxysilyl group and used as a core mol. The organosilicate polymer composite film has a very low dielec. constant, and is useful as a dielec. film of the semiconductor device.

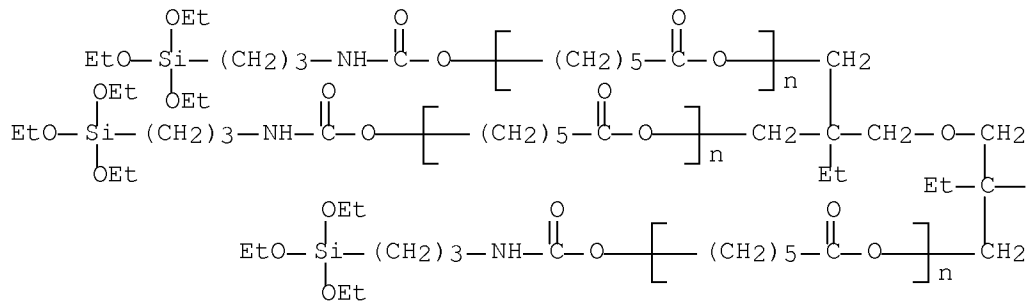
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 846014-04-8P 846014-06-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (low-dielec. nanoporous organosilicate polymer composite prepared from precursor of organic/inorg. hybrid polymer)

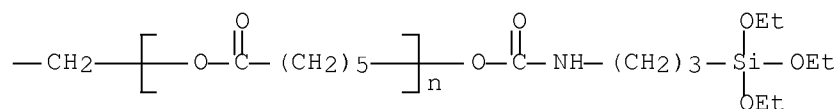
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CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

PAGE 1-A



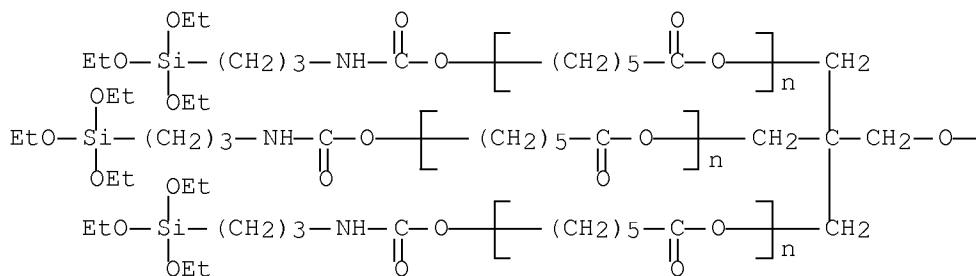
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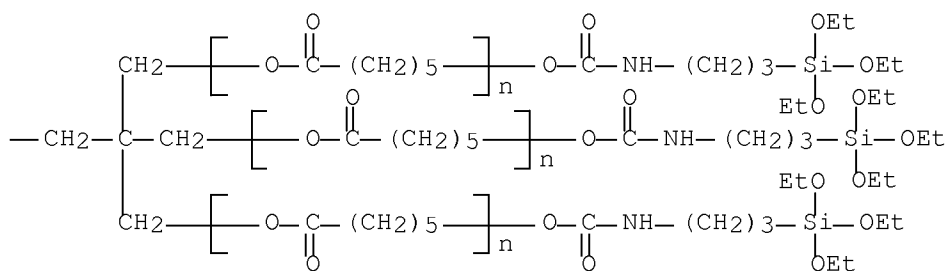
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CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (CA INDEX NAME)

PAGE 1-A



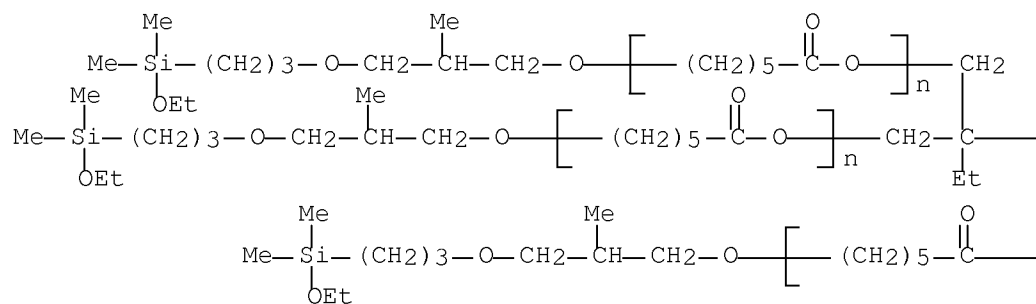
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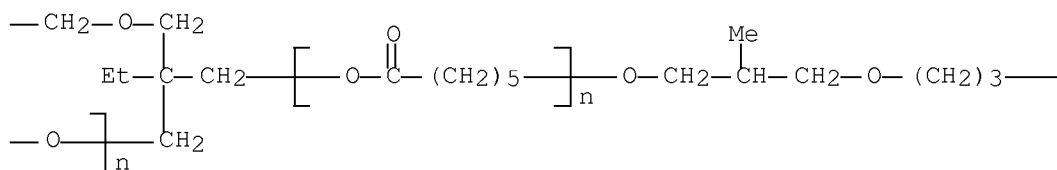
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CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

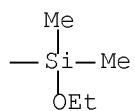
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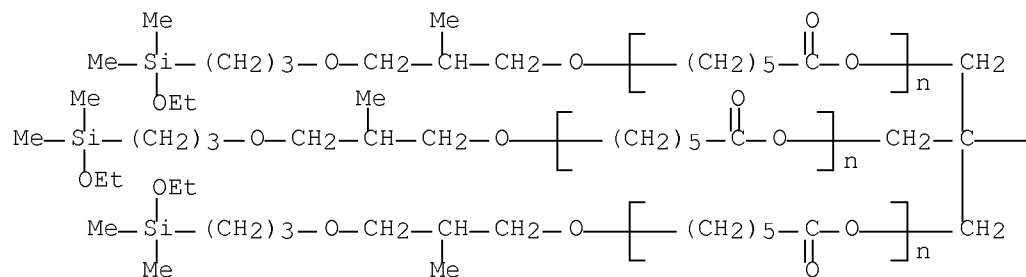
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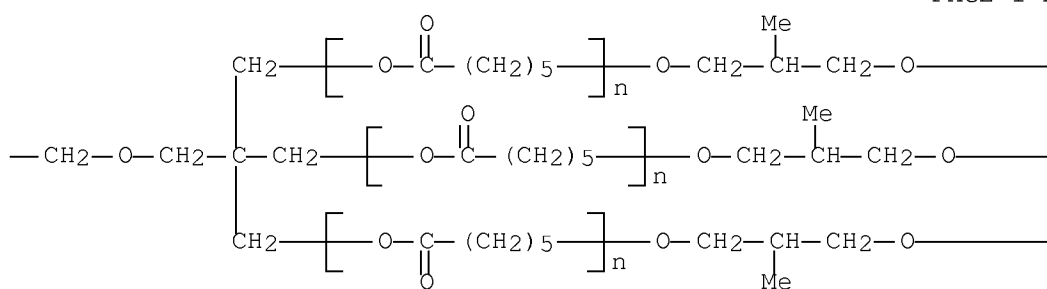
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CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(ethoxydimethylsilyl)propoxy]-2-methylpropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI) (CA INDEX NAME)

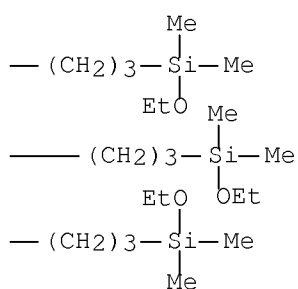
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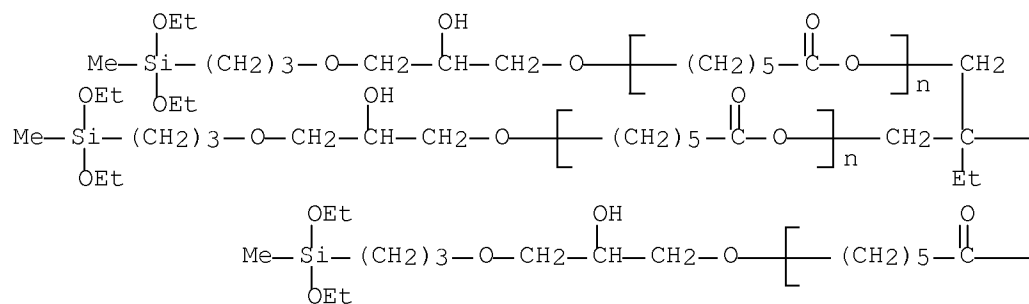
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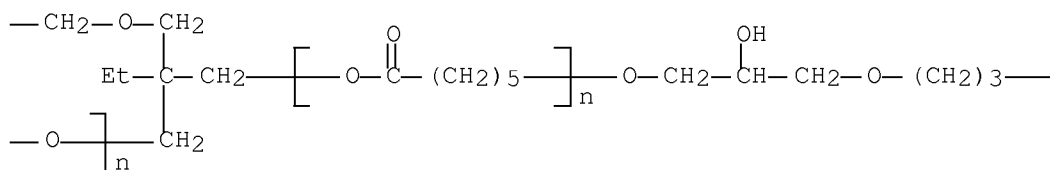
RN 846014-00-4 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(diethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

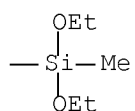
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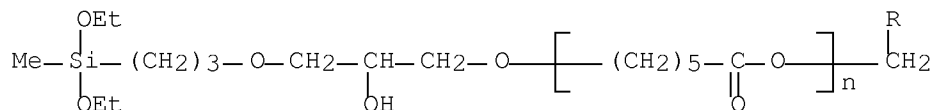
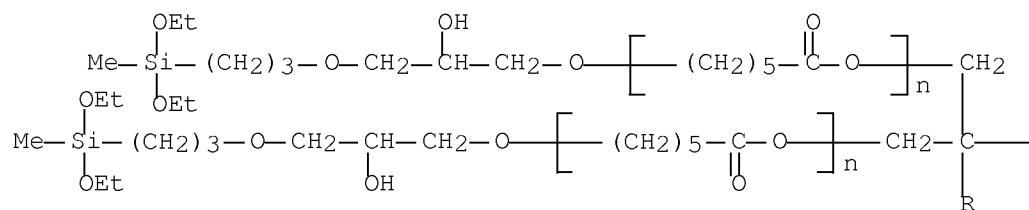
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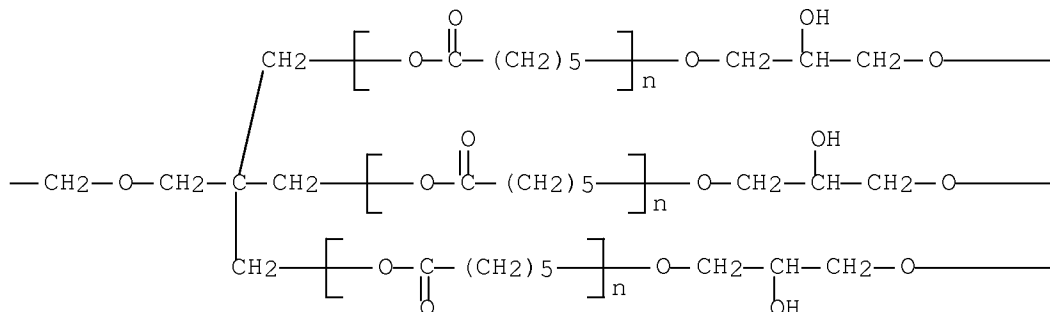
RN 846014-02-6 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(diethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI) (CA INDEX NAME)

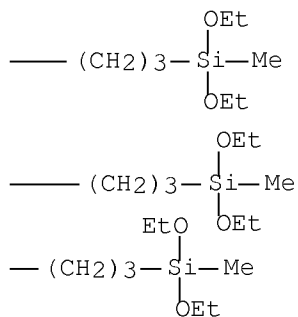
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PAGE 1-B



PAGE 1-C

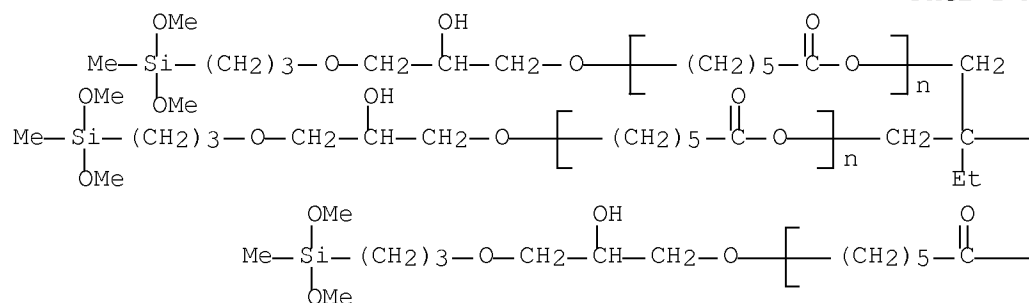


RN 846014-04-8 HCAPLUS

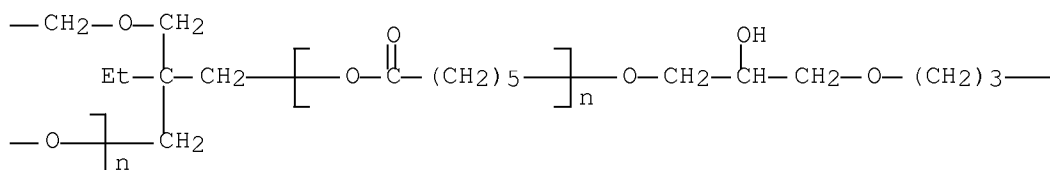
CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA

INDEX NAME)

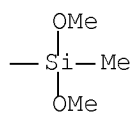
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PAGE 1-B



PAGE 1-C



RN 846014-06-0 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[3-[3-(dimethoxymethylsilyl)propoxy]-2-hydroxypropoxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (9CI)
(CA INDEX NAME)

Du Pont	1995		US 5378790 A	HCAPLUS
Honeywell Int Inc	2002		US 6495479 B1	HCAPLUS
Ibm	2000		US 6107357 A	HCAPLUS
Lg Chem Investment Ltd	2001		US 20010055891 A1	HCAPLUS
Us Energy	1987		US 4652467 A	HCAPLUS

L71 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:1154745 HCAPLUS Full-text

DN 142:105484

TI Star-shaped polymer and production of nano-porous low dielectric polymer composite film using the same

IN Ree, Moonhor; Oh, Weontae; Hwang, Yongtaek;
Lee, Byeongdu

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	DE 112004001135	T5	20060524	DE 2004-112004001135	20040217 <--
	JP 2007520575	T	20070726	JP 2006-515337	20040217 <--
	US 20060142504	A1	20060629	US 2005-561974	20051222 <--
PRAI	KR 2003-41384	A	20030625	<--	
	WO 2004-KR316	W	20040217	<--	

AB A star-shaped polymer having an alkoxy silane end group and containing an ether group at the center thereof is useful as a pore introducer to obtain a low dielec. silicate polymer film having nano-pores distributed regularly and evenly. The star-shaped polymer is prepared by comprising conducting a ring open polymerization of a cyclic monomer and a polyhydric alc., and reacting the resulting polymer with an alkoxy silane compound

IT 816457-20-2P 816457-23-5P

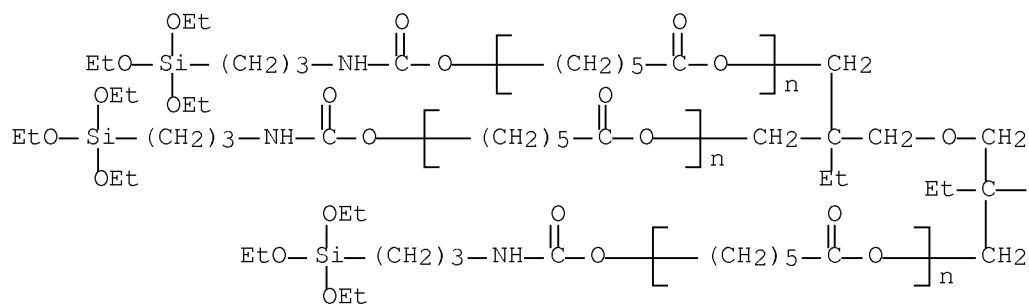
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(star-shaped polymer and production of nano-porous low dielec. polymer composite film using the same)

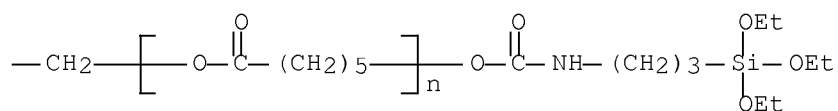
RN 816457-20-2 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyloxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1) (9CI) (CA INDEX NAME)

PAGE 1-A



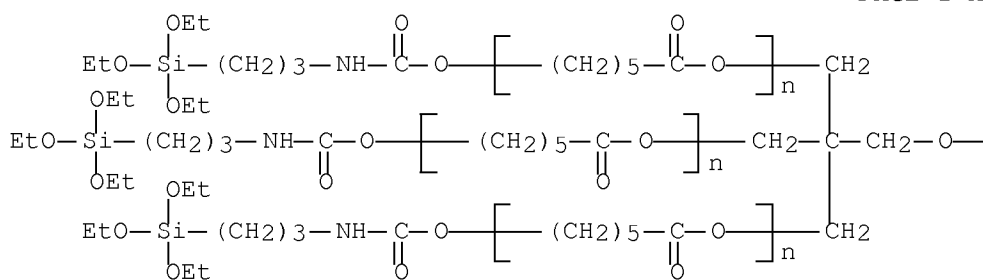
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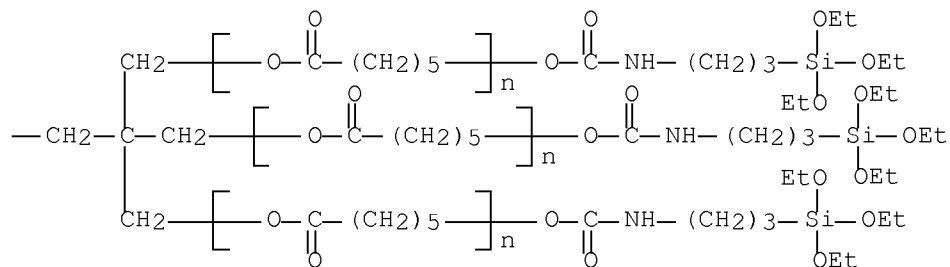


RN 816457-23-5 HCAPLUS

CN Poly[oxy(1-oxo-1,6-hexanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ester with 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (6:1) (CA INDEX NAME)

PAGE 1-A





RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Jsr Ltd	2002			JP 2002167438 A	HCAPLUS
Nippon Zeon Co	1994			JP 06-271772 A	HCAPLUS
Shin-Etsu Chemical Indu	2002			JP 2002268227 A	HCAPLUS
Showa Denko Co Ltd	1996			JP 08-143818 A	HCAPLUS
Teijin Ltd	1992			JP 04-339833 A	HCAPLUS

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L72 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:428634 HCAPLUS Full-text

DN 142:490130

TI Coating compositions with good hot water and heat moisture resistance for optical fibers

IN Oshio, Atsushi; Saito, Osamu

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

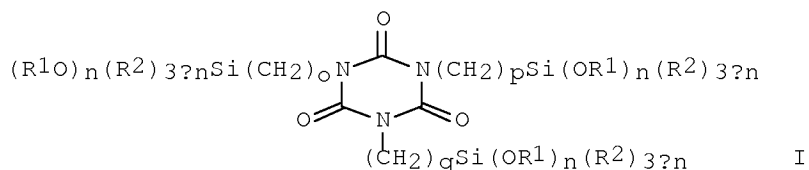
DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2005128304	A	20050519	JP 2003-364640	20031024
PRAI JP 2003-364640		20031024		

GI



AB The compns. comprise (A) radically polymerizable compds., (B) photopolymn. catalysts, (C) alkoxyisilyl compds. containing (c1) I (R1, R2 = C1-5 alkyl; n = 2, 3; o, p, q = 1-10), (c2) alkoxyisilyl compds. having ≥2 alkoxyisilyl groups and no radically polymerizable unsatd. double bonds prepared by reaction of

(d1) compds. (mol. weight 50-1200) having 2-10 groups chosen from OH, amino, and mercapto groups and (d2) $O:C:N(CH_2)_mSi(OR)_nR_2^{3-n}$ ($R_1, R_2 = C_1-5$ alkyl; $m = 1-10$; $n = 2, 3$), and (c3) alkoxy-silyl compds. having ≥ 2 alkoxy-silyl groups and no radically polymerizable unsatd. double bonds prepared by reaction of d1, (d3) polyisocyanates, and (d4) $X(CH_2)_mSi(OR)_nR_2^{3-n}$ ($R_1, R_2 = C_1-5$ alkyl; $X =$ mercapto, amino; $m = 1-10$; $n = 2, 3$). The compns. show improved adhesion to glass plates, and are useful as primary coatings for optical fibers with high mech. strength.

IT 851852-18-1

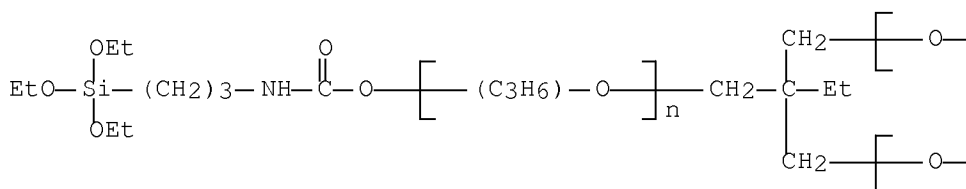
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(coating compns. with good hot water and heat moisture resistance for covering optical fibers)

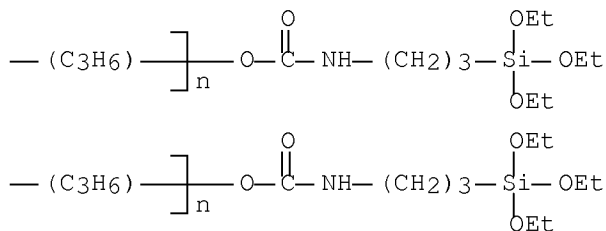
RN 851852-18-1 HCAPLUS

CN Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

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L72 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:363784 HCAPLUS Full-text

DN 143:60335

TI Telechelic and star-shaped poly(ϵ -caprolactone) functionalized with triethoxysilyl groups - new biodegradable coatings and adhesives

AU Kricheldorf, Hans R.; Hachmann-Thiessen, Heiko

CS Institut fuer Technische und Makromolekulare Chemie, Hamburg, D-20146, Germany

SO Macromolecular Chemistry and Physics (2005), 206(7), 758-766

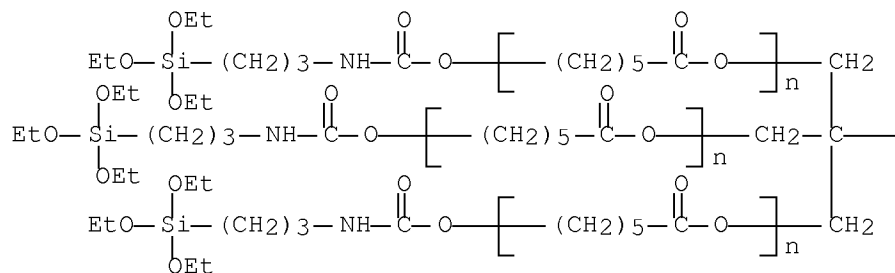
CODEN: MCHPES; ISSN: 1022-1352

PB Wiley-VCH Verlag GmbH & Co. KGaA

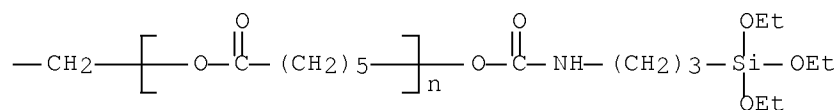
DT Journal

LA English

PAGE 1-A



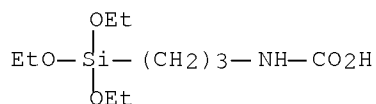
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RN 853904-54-8 HCAPLUS
 CN 2-Oxepanone, homopolymer, ester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), tris[[3-(triethoxysilyl)propyl]carbamate] (9CI) (CA INDEX NAME)

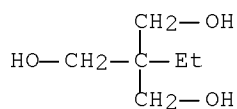
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CM 2

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 CMF C6 H14 O3

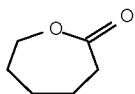


CM 3

CRN 24980-41-4
 CMF (C6 H10 O2)x
 CCI PMS

CM 4

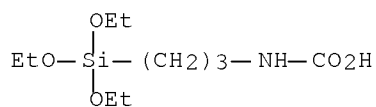
CRN 502-44-3
 CMF C6 H10 O2



RN 853904-58-2 HCAPLUS
 CN 2-Oxepanone, homopolymer, ester with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), tetrakis[[3-(triethoxysilyl)propyl]carbamate] (9CI)
 (CA INDEX NAME)

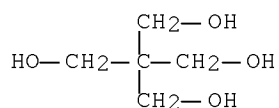
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CM 2

CRN 115-77-5
 CMF C5 H12 O4



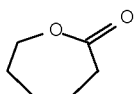
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 CCI PMS

CM 4

CRN 502-44-3

CMF C6 H10 O2



RETABLE

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Amann, H	1972			DE 056729 R	
Aoi, K	2002	203	1018	Macromol Chem Phys	HCAPLUS
Arcana, M	2002	51	854	Polym Int	
Bero, M	1999	200	911	Macromol Chem Phys	HCAPLUS
Critehfield, F	1970			FR 2026274	HCAPLUS
Kowalski, A	1998	19	567	Macromol Rapid Commu	HCAPLUS
Kowalski, A	2000	33	7359	Macromolecules	HCAPLUS
Kricheldorf, H	2001	2	1110	Biomacromolecules	HCAPLUS
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Kricheldorf, H	1999	A36	793	J Macromol Sci, Pure	
Kricheldorf, H	1998	36	1373	J Polym Sci, Part A:	HCAPLUS
Kricheldorf, H	2002	40	1947	J Polym Sci, Part A:	
Kricheldorf, H	2001	1	364	Macromol Biosci	HCAPLUS
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Kricheldorf, H	1998	199	283	Macromol Chem Phys	HCAPLUS
Kricheldorf, H	1999	200	1174	Macromol Chem Phys	HCAPLUS
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Kricheldorf, H	2001	202	2962	Macromol Chem Phys	
Kricheldorf, H	2002	203	405	Macromol Chem Phys	HCAPLUS
Kricheldorf, H	1999	20	319	Macromol Rapid Commu	HCAPLUS
Kricheldorf, H	1984	17	2173	Macromolecules	HCAPLUS
Kricheldorf, H	1988	21	286	Macromolecules	HCAPLUS
Kricheldorf, H	1991	24	1944	Macromolecules	HCAPLUS
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Kricheldorf, H	1998	31	614	Macromolecules	HCAPLUS
Kricheldorf, H	1998	31	6403	Macromolecules	HCAPLUS
Kricheldorf, H	2000	33	696	Macromolecules	HCAPLUS
Kricheldorf, H	2001	34	3517	Macromolecules	HCAPLUS
Kricheldorf, H	1990	32	285	Makromol Chem, Macro	HCAPLUS
Kricheldorf, H	2000	41	3957	Polymer	HCAPLUS
Majerska, K	2000	21	1327	Macromol Rapid Commu	HCAPLUS
Matsuda, T	2000	33	795	Macromolecules	HCAPLUS
Messori, M	2003	44	4463	Polymer	HCAPLUS
Mizutani, M	2002	3	668	Biomacromolecules	HCAPLUS
Moller, M	2001	39	3529	J Polym Sci, Part A:	HCAPLUS
Penczek, S	1999	80	95	Polym Mater Sci Eng	HCAPLUS
Rafler, G	1992	43	91	Acta Polym	HCAPLUS
Sandner, H	2001	22	2695	Biomaterials	
Storey, R	2002	40	3434	J Polym Sci, Part A:	HCAPLUS
Storey, R	2002	35	1504	Macromolecules	HCAPLUS
Storey, R	1996	37	626	Polym Prepr (Am Chem	HCAPLUS
Tian, O	1996	37	3983	Polymer	
Turunen, M	2002	51	92	Polym Int	HCAPLUS
Ydius, J	2003	204	171	Macromol Chem Phys	
Young, S	2002	43	6101	Polymer	HCAPLUS

L72 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:281679 HCAPLUS Full-text
 DN 142:356293
 TI Environmentally responsive polymeric system for biomedical applications
 IN Cohn, Daniel; Sosnik, Alejandro
 PA Yissum Research Development Company of the Hebrew University of Jerusalem,
 Israel
 SO U.S. Pat. Appl. Publ., 19 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050069573	A1	20050331	US 2004-845476	20040512
PRAI	IL 2003-155866	A	20030512		

AB Title environmentally responsive polymeric system comprises a silicon-containing reactive groups which undergo a hydrolysis-condensation reaction at a predetd. body site and thereby change rheol. and mech. properties of the polymeric system. The polymeric system is useful as a sealant, as a matrix for drug delivery, in the prevention of post-surgical adhesions, and in gene therapy. Thus, 20.2 g polycaprolactone and 1.9 g 3-isocyanatopropyltriethoxysilane were reacted at 80° for 1 h to give a ethoxysilyl-terminated polycaprolactone, which was hydrolysis-condensated to give a test piece with apparent modulus 10.7 MPa.

IT 848841-96-3DP, hydrolyzed

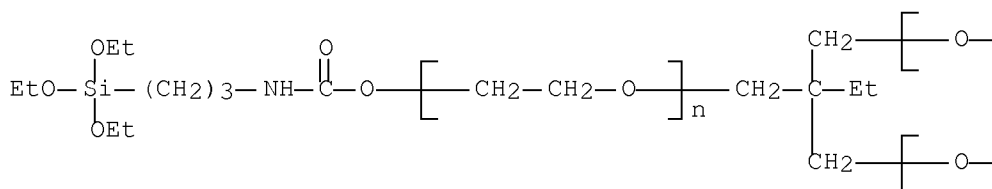
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of environmentally responsive polymeric systems for biomedical applications)

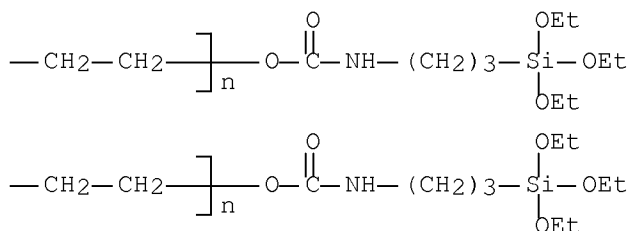
RN 848841-96-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -[[[3-(triethoxysilyl)propyl]amino]carbonyl]oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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(FILE 'HOME' ENTERED AT 07:51:26 ON 05 AUG 2008)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 07:51:40 ON 05 AUG 2008

L1 1 S US20060014845/PN OR (US2005-530815# OR WO2004-KR2104 OR KR200
E POSTECH/CO
L2 2002 S E3-E12/CO, PA, CS
E E7+ALL
E REE/AU
L3 281 S E64, E65, E68-E70
E MOONHOR/AU
E MOON HOR/AU
E MOON H/AU
L4 46 S E3, E17
E OH/AU
E OH W
E OH W/AU
L5 77 S E3-E13
E OH WEO/AU
L6 23 S E9, E11
E OH NAME/AU
L7 11 S E4-E7
E WEON/AU
E WEONTAE/AU
E HWANG/AU
L8 3 S E3
E HWANG Y/AU
L9 65 S E3, E19, E20
E HWANG YONG/AU
L10 16 S E3, E54, E55
E HWANG YONGTAEK/AU
L11 16 S E3
E HWANG NAME/AU
L12 14 S E4, E5
E YONG/AU
E YONG T/AU
L13 7 S E3
E YONG TAEK/AU
E YONG NAME/AU
E YONGTAEK/AU
E LEE/AU
L14 41 S E3
E LEE B/AU
L15 1826 S E3-E44
E LEE BYEONG/AU
L16 12 S E2, E22
E LEE BYEONGDU/AU
L17 80 S E3
E LEE NAME/AU
L18 307 S E4-E11
E BYEONG/AU
E BYEONGDU/AU
L19 1 S L1 AND L2-L18
SEL RN

FILE 'REGISTRY' ENTERED AT 07:57:56 ON 05 AUG 2008

L20 11 S E1-E11
 L21 8 S L20 AND PMS/CI AND SI/ELS
 L22 STR
 L23 SCR 2043
 L24 50 S L22 AND L23
 L25 930 S L22 AND L23 FUL
 SAV TEMP L25 WINKLER530A/A
 L26 STR L22
 L27 STR L22
 L28 STR L27
 L29 50 S (L26 OR L27 OR L28) SAM SUB=L25
 L30 864 S (L26 OR L27 OR L28) FUL SUB=L25
 SAV TEMP L30 WINKLER530B/A
 L31 0 S L30 AND OCOCOC/ES
 L32 120 S L30 AND (OC2 OR OC3 OR OC4 OR OC5)/ES
 L33 12 S L30 AND OC6/ES
 L34 4 S L33 AND (C6H14O3 OR C5H12O4 OR C12H26O5 OR C10H22O7)
 L35 16 S L30 AND (126-58-9 OR 23235-61-2 OR 115-77-5 OR 77-99-6)/CRN
 L36 12 S L35 NOT L34
 L37 0 S L30 AND C3H6O3
 L38 21 S L30 AND (C3H5NO OR C4H7NO OR C5H9NO OR C6H11NO)
 L39 23 S L30 AND (NC3 OR NC4 OR NC5 OR NC6)/ES
 L40 112 S L30 AND (C3H4O2 OR C4H6O2 OR C5H8O2 OR C6H10O2)
 L41 22 S L40 AND 1/NC
 SEL RN 1-5 8 9 18 20-22
 L42 11 S L41 NOT E12-E22
 L43 15 S L21,L34,L42
 L44 STR
 L45 1 S L44 SAM SUB=L30
 L46 59 S L44 FUL SUB=L30
 SAV TEMP L46 WINKLER530C/A
 L47 44 S L46 NOT L43
 L48 1 S L47 AND C7H18O3SI NOT NC4-C6/ES
 L49 3 S L47 AND (C2H4O OR C3H6O) AND 1/NC
 L50 19 S L43,L48,L49
 SAV TEMP L50 WINKLER530D/A

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L51 11 S L50
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 L55 5 S L51 AND (PD<=20040820 OR PRD<=20040820 OR AD<=20040820) AND P
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 L57 10 S L52-L56
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 SEL RN

FILE 'REGISTRY' ENTERED AT 08:47:27 ON 05 AUG 2008

L60 104 S E23-E126
 L61 25 S L60 AND L25
 L62 12 S L61 NOT L50

FILE 'REGISTRY' ENTERED AT 08:48:40 ON 05 AUG 2008

FILE 'HCAPLUS' ENTERED AT 08:49:02 ON 05 AUG 2008

FILE 'REGISTRY' ENTERED AT 08:51:09 ON 05 AUG 2008

FILE 'REGISTRY' ENTERED AT 08:51:22 ON 05 AUG 2008

L63 17 S L50 NOT (246255-20-9 OR 335087-97-3)
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L66 17 S L63,L65
SAV TEMP L66 WINKLER530E/A

FILE 'HCAPLUS' ENTERED AT 08:53:01 ON 05 AUG 2008

L67 9 S L66
L68 6 S L67 AND L1-L19
L69 0 S L68 AND (PY<=2004 OR PY<=2003) NOT P/DT
L70 2 S L68 AND (PD<=20040820 OR PRD<=20040820 OR AD<=20040820 OR PD<
L71 6 S L68,L70
L72 3 S L67 NOT L71

FILE 'REGISTRY' ENTERED AT 08:54:37 ON 05 AUG 2008

FILE 'HCAPLUS' ENTERED AT 08:54:54 ON 05 AUG 2008

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